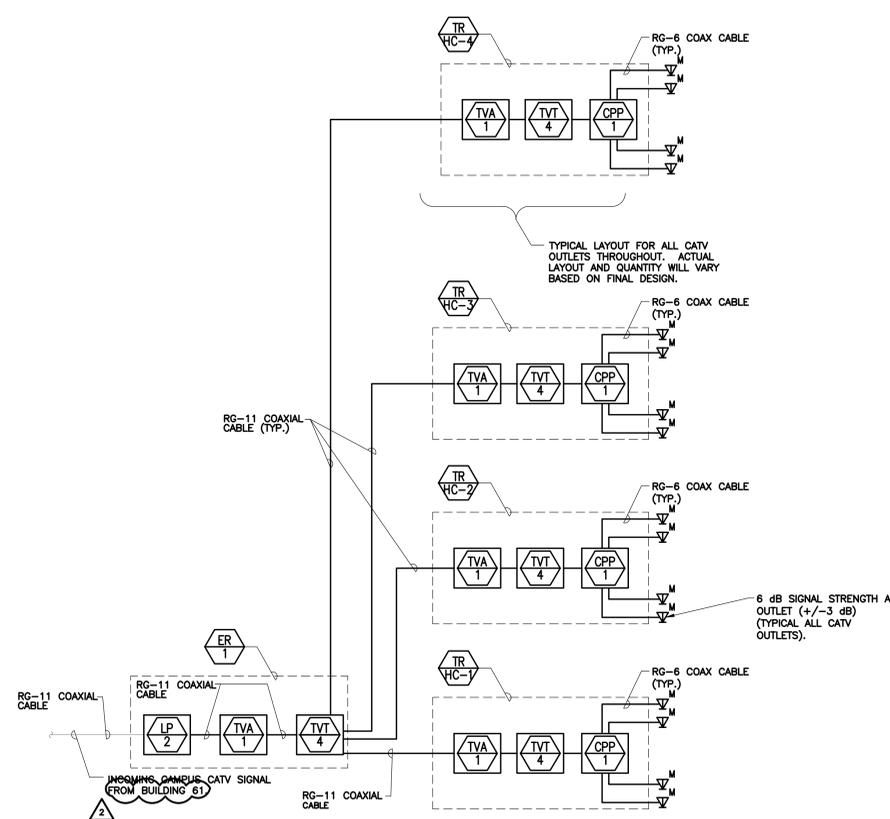
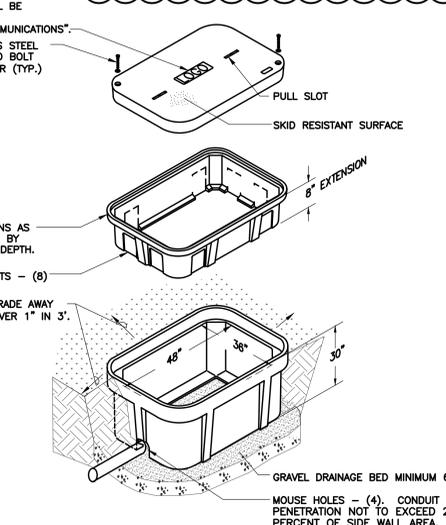


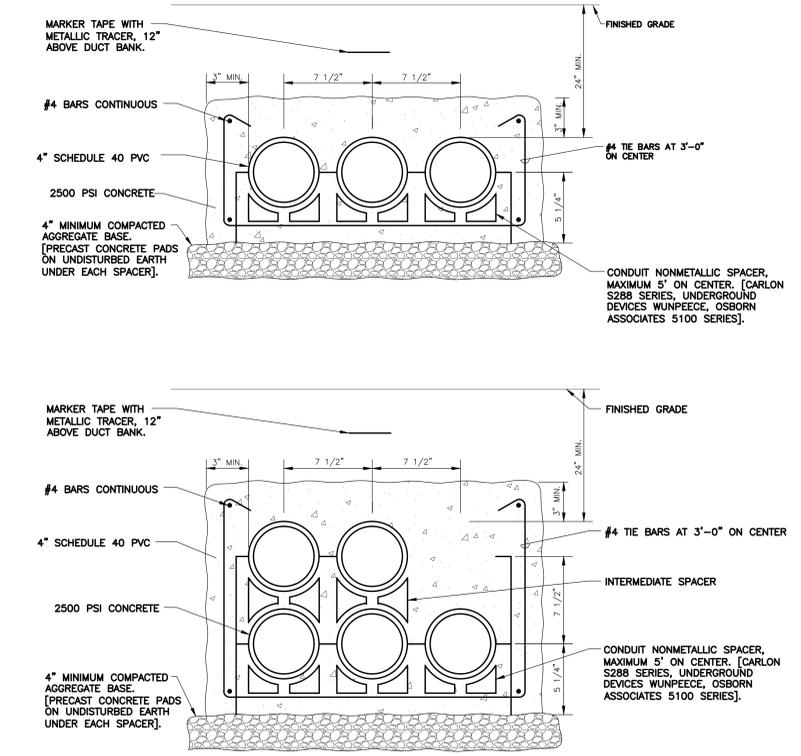
three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one eighth inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot



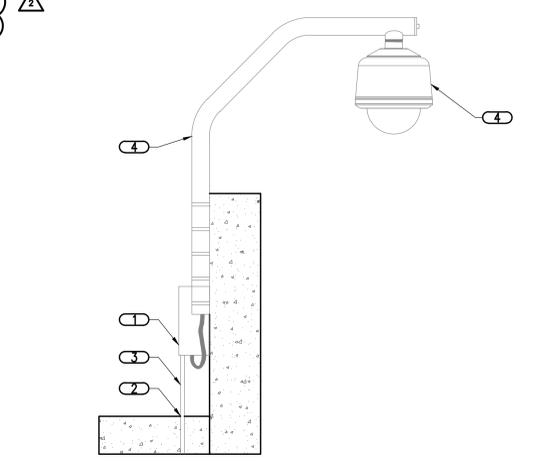
1 PARTIAL CABLE TV FIBER DIAGRAM
 NO SCALE
 NOTES:
 1. CONTRACTOR TO PROVIDE CATV SYSTEM TO ALLOW 6dB +/- 3dB OF OUTPUT AT ALL "V" OUTLETS, ACTUAL TAP/SPLITTER SETTINGS, LAYOUT, AND AMP SIZING/QUANTITY TO BE INCLUDED IN CONTRACTOR'S FINAL DESIGN. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 2. ALL CABLING IS TO BE RG-6 COAXIAL UNLESS OTHERWISE NOTED.
 3. SEE PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH TELEVISION OUTLET.
 4. CONTRACTOR SHALL RELOCATE EXISTING CAMPUS TELEVISION SYSTEM FROM BUILDING 61. CONTRACTOR SHALL COORDINATE ALL DOWN-TIME AND MOVE SCHEDULE WITH OWNER TO MINIMIZE DOWNTIME. ALL RACKS AND FIBER-OPTIC CABLE AND TRANCEIVERS SHALL BE IN PLACE AND READY TO ACCEPT RELOCATED HEAD-END EQUIPMENT PRIOR TO MOVE. REFER TO TD01 FOR HEAD END LOCATION. REFER TO TD01 FOR BUILDING 61 LOCATION.



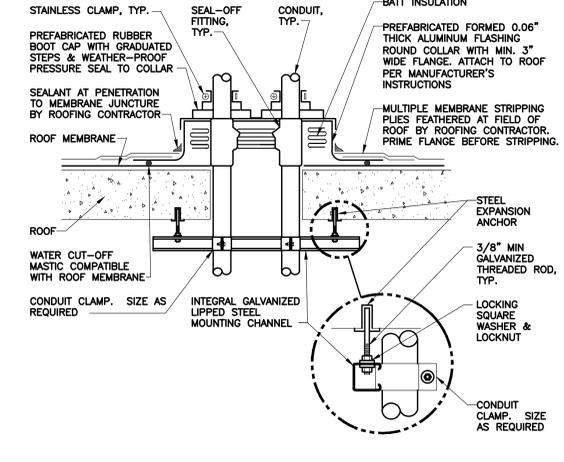
4 EXTERIOR HAND HOLE DETAIL
 NO SCALE
 NOTES:
 1. ALL DIMENSIONS ARE NOMINAL INSIDE CLEARANCES.
 2. ALL CONDUITS SHALL ENTER HAND HOLE AT 30° ANGLE AND SHALL NOT EXTEND INTO HAND HOLE MORE THAN 4".



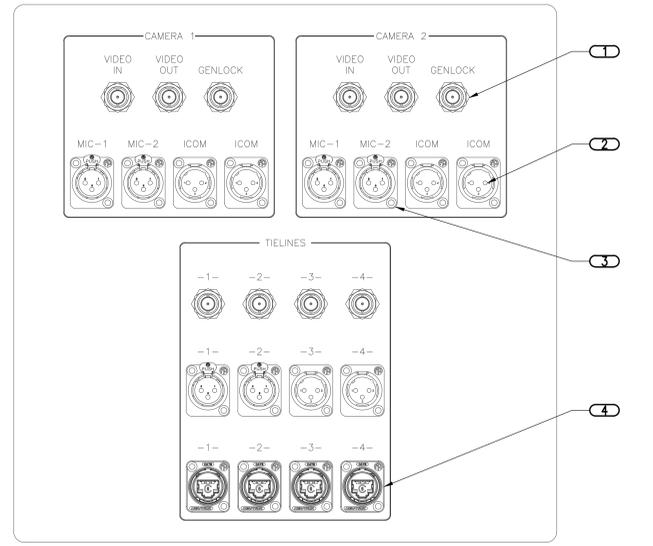
2 DUCT BANK DETAIL
 NO SCALE
 NOTES:
 1. INSTALL 2000 LB TENSILE STRENGTH BRAIDED POLYPROPYLENE PULL CORD IN ALL CONDUITS.
 2. TRENCHING AND BACKFILL ACCORDING TO SPECIFICATIONS.
 3. MINIMUM OF 4'-0" CLEAR BETWEEN ADJACENT DUCTBANKS.



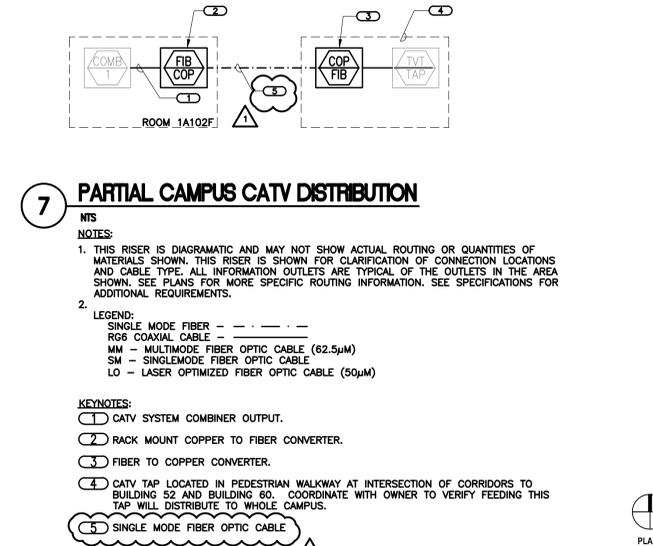
5 CCTV PARAPET MOUNTING DETAIL
 NO SCALE
 KEYNOTES:
 1. PROVIDE 12"x12"x6" (MINIMUM) NEMA 3R ENCLOSURE WITH INSTRUMENT MOUNTING PANEL FOR ELECTRICAL AND COMMUNICATIONS OUTLETS.
 2. PROVIDE ROOF PENETRATION FOR ELECTRICAL AND COMMUNICATIONS CONDUIT. SUBMIT A ROOF PENETRATION DETAIL FOR EACH DIFFERENT TYPE OF CONFIGURATION.
 3. PROVIDE 1" CONDUIT FOR BOTH ELECTRICAL AND COMMUNICATIONS PATHWAYS.
 4. OWNER TO PROVIDE AND INSTALL CAMERA, PARAPET MOUNT, AND PATHWAY FROM ENCLOSURE AT A FUTURE DATE.



6 ROOF PENETRATION DETAIL
 NTS
 NOTES:
 1. MAINTAIN A MINIMUM CLEARANCE OF 12" [308mm] ON ALL SIDES OF ROOF PENETRATION FROM WALLS, CURBS, AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING.
 2. FLANGES OF ADJACENT FLASHINGS SHALL NOT BE CUT OR OVERLAPPED.
 3. VERIFY ROOF & STRUCTURAL SYSTEM WITH ARCHITECT.
 4. COORDINATE FLASHING INSTALLATION WITH ROOFING CONTRACTOR TO ENSURE PROPER METHODS & MATERIALS ARE USED TO MAINTAIN ROOF WARRANTY.



3 VIDEO PRODUCTION PANEL DETAIL
 NO SCALE
 NOTES:
 1. CONTRACTOR SHALL CUSTOM FABRICATE VIDEO PRODUCTION PANEL: USING .125" 6061 ALUMINUM.
 2. DEPTH OF PANEL BOX SHALL BE SUFFICIENT TO HOUSE CONNECTORS, CABLE AND CONDUIT.
 3. LAYOUT OF DEVICES SHALL BE AS SHOWN ABOVE.
 4. PANEL BOX SHALL BE RECESSED INTO WALL.
 KEYNOTES:
 1. BULKHEAD BNC VIDEO CONNECTOR
 2. MALE XLR CONNECTOR
 3. FEMALE XLR CONNECTOR
 4. BULKHEAD CAT6 CONNECTOR



7 PARTIAL CAMPUS CATV DISTRIBUTION
 NTS
 NOTES:
 1. THIS RISER IS DIAGRAMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. SEE PLANS FOR MORE SPECIFIC ROUTING INFORMATION. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 2. LEGEND:
 SINGLE MODE FIBER - - - - -
 RG6 COAXIAL CABLE - - - - -
 MM - MULTIMODE FIBER OPTIC CABLE (62.5µm)
 SM - SINGLEMODE FIBER OPTIC CABLE
 LO - LASER OPTIMIZED FIBER OPTIC CABLE (50µm)
 KEYNOTES:
 1. CATV SYSTEM COMBINER OUTPUT.
 2. RACK MOUNT COPPER TO FIBER CONVERTER.
 3. FIBER TO COPPER CONVERTER.
 4. CATV TAP LOCATED IN PEDESTRIAN WALKWAY AT INTERSECTION OF CORRIDORS TO BUILDING 52 AND BUILDING 60. COORDINATE WITH OWNER TO VERIFY FEEDING THIS TAP WILL DISTRIBUTE TO WHOLE CAMPUS.
 5. SINGLE MODE FIBER OPTIC CABLE

FULLY SPRINKLERED

CONSULTANTS: STRUCTURAL ENGINEER: KPMG ENGINEERING CONSULTANTS 1631 DES PERES ROAD, SUITE 100 ST. LOUIS, MO 63131 PHONE: (314) 835-0524 MECHANICAL/ELECTRICAL/PLUMBING: KPMG ENGINEERING CONSULTANTS #15 SUNNEN DRIVE, SUITE 104 CHESTERFIELD, MO 63143 PHONE: (314) 645-1132 CODE CONSULTANT/FIRE PROTECTION: CODE CONSULTANTS, INC. 2045 WOODLAND PARKWAY, SUITE 300 ST. LOUIS, MO 63146 PHONE: (314) 991-2633 CIVIL ENGINEER: STOOK & ASSOCIATES CONSULTING ENGINEERS, INC. 267 CHESTERFIELD BUSINESS PARKWAY CHESTERFIELD, MO 63005 PHONE: (636) 503-9100 AUTOMATIC TRANSPORT: LERCH BATES INC. 8989 S. LINCOLN STREET, SUITE 207 LITTLETON, CO 80122 PHONE: (720) 283-8182 ESTIMATING: KWAME BUILDING GROUP INC. 1204 WASHINGTON AVENUE, SUITE 200 ST. LOUIS, MO 63103 PHONE: (314) 982-5344 HAZARDOUS MATERIALS: ALTEC ENVIRONMENTAL CONSULTING, LLC P.O. BOX 1787 SHREVEPORT, LA 71184-0867 PHONE: (318) 987-3771 IRRIGATION CONSULTANTS: IRRI 5002 BANYON TREE ST. LOUIS, MO 63126 PHONE: (314) 843-4461		CERTIFICATE OF AUTHORITY: 	ARCHITECT/ENGINEERS: CHRISTNER ARCHITECTS DESIGNERS PLANNERS LANDSCAPE ARCHITECTS 168 N. MERAMEC AVENUE ST. LOUIS, MISSOURI 63105 TEL 314 725 2927 FAX 314 725 2928 CHRISTNERINC.COM	Drawing Title TECHNOLOGY RISER DIAGRAMS Approved: Project Director 	Project Title TENANT BUILDING Location JEFFERSON BARRACKS DIVISION Date 29 OCTOBER 2012 Checked DARHAR Drawn KEIEVE	Project Number 657-313D Building Number 56 Drawing Number TN401 Dwg. 129 of 153	Office of Construction and Facilities Management Department of Veterans Affairs
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